

Title (en)

Systems and methods for apportioning usage of a utility in a multi-unit building

Title (de)

Systeme und Verfahren zur Dosierung der Verwendung eines Dienstprogramms in einem Gebäude aus mehreren Einheiten

Title (fr)

Systèmes et procédés pour la répartition de l'utilisation d'un service dans un bâtiment à plusieurs unités

Publication

EP 2450669 A1 20120509 (EN)

Application

EP 11173408 A 20110711

Priority

US 94348310 A 20101110

Abstract (en)

Usage of a utility in a multi-unit building is apportioned to a single unit by measuring the total usage of the utility using a meter unit to produce a total usage measurement, then positioning at least one sensor unit in a single unit of the multi-unit building and monitoring usage of the utility by the single unit using the at least one sensor unit to produce monitoring data. Then a processor unit receives the total usage measurement and the monitoring data and correlates them to generate correlated data. Finally, the processor unit apportions the total usage measurement to the single unit based on the correlated data.

IPC 8 full level

G01D 4/00 (2006.01); **F24D 19/10** (2006.01); **G01F 15/075** (2006.01)

CPC (source: EP US)

F24D 19/1063 (2013.01 - EP US); **G01D 4/002** (2013.01 - EP US); **G01F 1/00** (2013.01 - US); **G01F 1/05** (2013.01 - US); **G01F 1/666** (2013.01 - EP); **G01F 15/0755** (2013.01 - EP US); **E03B 7/00** (2013.01 - EP US); **G01D 2204/45** (2021.05 - EP); **Y02B 70/30** (2013.01 - EP US); **Y02B 90/20** (2013.01 - US); **Y04S 20/244** (2013.01 - EP US); **Y04S 20/30** (2013.01 - EP US)

Citation (search report)

- [Y] EP 1411329 A2 20040421 - SMITH WADE W [US], et al
- [XY] EP 1843136 A2 20071010 - ISTA SHARED SERVICES GMBH [DE]
- [A] Y. KIM, T. SCHMID ET AL: "NAWMS: Nonintrusive Autonomous Water Monitoring System", 5 November 2008 (2008-11-05), XP002672122, Retrieved from the Internet <URL:http://delivery.acm.org/10.1145/1470000/1460443/p309-kim.pdf?ip=145.64.134.242&acc=ACTIVE%20SERVICE&CFID=71792885&CFTOKEN=90784809&__acm__=1332430393_49c54ad17a8c9c09363e753a8b28fc1b> [retrieved on 20120322]

Cited by

WO2017046109A1; EP3086102B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2450669 A1 20120509; EP 2450669 B1 20180418; CN 102466501 A 20120523; CN 102466501 B 20170301; US 2012116693 A1 20120510; US 2013211745 A1 20130815; US 8428891 B2 20130423; US 8909488 B2 20141209

DOCDB simple family (application)

EP 11173408 A 20110711; CN 201110201963 A 20110719; US 201313846503 A 20130318; US 94348310 A 20101110